

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99352 • (509) 372-79

July 2, 2004



EDMC

Mr. Joel Hebdon, Director Regulatory Compliance and Analysis Division United States Department of Energy P.O. Box 550, MSIN: A5-15 Richland, Washington 99352

Mr. Roy J. Schepens, Manager Office of River Protection United States Department of Energy P.O. Box 450, MSIN: H6-60 Richland, Washington 99352

Mr. Keith A. Klein, Manager Richland Operations Office United States Department of Energy P.O. Box 550, MSIN: A7-50 Richland, Washington 99352

Mr. Richard H. Gurske, Director Environmental Protection Fluor Hanford, Inc. P.O. Box 1000, MSIN: H8-12 Richland, Washington 99352 Mr. Michael C. Hughes, President Bechtel National, Inc. 2435 Stevens Center Place Richland, Washington 99352

Mr. J.P. Henschel, Project Director Bechtel National, Inc. 2435 Stevens Center Place Richland, Washington 99352

Mr. Roby D. Enge, Director Environment, Safety, Health and Quality Pacific Northwest National Laboratory P.O. Box 999, MSIN: J2-38 Richland, Washington 99352

Ms. Susan J. Eberlein, Vice President Environmental, Safety, Health and Quality CH2M Hill Hanford Group, Inc. P.O. Box 1500, MSIN: H6-03 Richland, Washington 99352

Dear Ms. Eberlein and Messrs. Hebdon, Schepens, Klein, Gurske, Hughes, Henschel, and Enge:

Re: Quarterly Notification of Class 1 Modifications to the Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit, Dangerous Waste Portion, (Quarter ending September 30, 2003-Permit Condition I.C.3)

The approved/denied quarterly modifications include:

Attachment 6: Hanford Well Maintenance and Inspection Plan:

Page 2: Attachment 6: List of Attachments: Denied.

Ms. Eberlein and Messrs. Hebdon, Gurske, Enge, Henschel, Schepens, and Klein July 2, 2004

Page 2

Page 3: Attachment 6, Section 1.0: Denied. Retain language of last sentence. Other

strike-outs okay.

Page 4: Attachment 6, Section 3.0: Denied. Request following language: "The schedule

(Appendix A) is designed to be sufficiently flexible to meet permit and

compliance conditions, accommodate changes that will occur with the addition of new wells, adjustments in the treatment, storage, and disposal unit closures, and

wells that are no longer needed for monitoring. The schedule will also

accommodate wells used by other programs."

Page 5: Attachment 6, Section 3.0: Denied. Request reference document and this

document must meet Ecology approval. Other strike-outs okay.

Page 6: Attachment 6, Section 7.0: Denied. Request reference of document cited in

Section 6.0.

305-B Storage Facility

Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit,

Condition III.2: Approved

Chapter 3.0: Approved

Section 3.1: Approved

Table 3-1: Approved

Table 8-1: Approved

Hanford Facility RCRA Permit, Condition II.U.3: Approved Hanford Facility RCRA Permit, Condition II.V: Approved

Additionally, Ecology recognizes approval for Facility Class 1 Prime permit modifications to the Waste Treatment and Immobilization Plant (WTP) portion of the Hanford Facility RCRA Permit, Part III, Chapter 10, Attachment 51 submitted July 13, 2003, and August 29, 2003. These include:

Waste Treatment and Immobilization Plant

Hanford Facility RCRA Permit, Chapter 10: III.10.C.14 Appendix 1.0: Interim Compliance Schedule Ms. Eberlein and Messrs. Hebdon, Gurske, Enge, Henschel, Schepens, and Klein July 2, 2004 Page 3

The United States Department of Energy and contractor staff are encouraged to discuss proposed Class 1 changes with Ecology's unit managers to clarify any questions or concerns. If you have any questions or comments regarding this letter, please contact me at (509) 372-7894.

Sincerely, Greb P. Davis

Greta P. Davis

Hanford Sitewide RCRA Permit Coordinator

Nuclear Waste Program

GD:JV:nc Enclosures

cc w/enc:

Mike Hughes, BHI

Roger J. Landon, BHI Richard H. Gurske, FH Suzette Thompson, FH

Roby Enge, PNL
Alice Ikenberry, PNL
Stuart Harris, CTUIR
Pat Sobotta, NPT
Russell Jim, YN
Ken Niles, ODOE
Environmental Portal
HF Operating Record
Administrative Record

cc w/o enc:

Rick Gay, CTUIR Todd Martin, HAB

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Hanford Facility RCRA Permit Modification Notification Forms Part III, Chapter 2 and Attachment 18 305-B Storage Facility

Quarter Ending September 30, 2003

Page 1 of 6

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Page 2 of 6: Hanford Facility RCRA Permit, Condition III.2.

Page 3 of 6: Chapter 3.0

Page 4 of 6: Chapter 3.0, Section 3.1
Page 5 of 6: Chapter 3.0, Table 3-1
Page 6 of 6: Chapter 8.0, Table 8-1

	· ·	Hanford Eacility DCDA Pormit N	Andification N	atification Family		Page 2 of		
		Hanford Facility RCRA Permit N Unit:	IOUIIICALION N			· · · · · · · · · · · · · · · · · · ·		
	305~	B Storage Facility	Dart	Permit Part & III, Chapter 2 an	-	nt 10		
			rait	III, Chapter 2 an	u Auacime	UF 19		
1	ion of Modific				The state of	,		
Hanford	Facility RCRA	A Permit, Condition III.2.A:			e de la companya de			
Ш.2.А.	COMPLIANO	<u>CE WITH APPROVED PERMIT APPL</u>	<u>ICATION</u>			en in grant in		
	The Permittees shall comply with all the requirements set forth in Attachment 18, including all Class 1 Modifications specified below, and the Amendments specified in Condition III.2.B. Enforceable portions of the permit application have been incorporated in Attachment 18 and are identified as follows. All subsections, figures, and tables included in these portions are also enforceable, unless stated otherwise:							
	ATTACHME	NT 18:						
	Chapter 1.0	Part A, Form 3, Permit Application, R September 30, 2002	evision 1C, fron	n Class 1 Modificat	ion for quart	er ending		
	Chapter 2.0	Unit Description, from Class 1 modifie	cation for quarte	r ending March 31,	2003			
	Chapter 3.0	Waste Analysis Plan, from Class 1 Mo	dification for qu	arter ending June S	September 30	, 2003		
	Chapter 4.0	Process Information, from Class 1 Mo	dification for qu	arter ending Septen	nber 30, 2002	2 -		
	Chapter 6.0	Procedures to Prevent Hazards, from C	lass 1 Modifica	tion for quarter end	ling June 30,	2003		
	Chapter 7.0	Building Emergency Procedure, from	Class 1 Modifica	ation for quarter en	ding June 30	, 2003		
	Chapter 8.0	Personnel Training, from Class 1 Mod	ification for qua	rter ending Septem	ber 30, 200 <u>3</u>	2		
	Chapter 11.0	Closure and Post-Closure Requirement September 30, 2002	ts, from Class 1	Modification for qu	arter ending			
, ,	Chapter 12.0	Reporting and Recordkeeping, from C	lass 1 Modificati	ion for quarter endi	ng Septembe	r 30, 2002		
	Chapter 13.0	Other Relevant Laws, from Class 1 Mo	odification for qu	arter ending Septe	mber 30, 200)2		
III.2.B.	AMENDMEN	TS TO THE APPROVED PERMIT AP	PLICATION	er ja kristorije kie				
Ш.2.В.1.	300 Area, the	nts of dangerous waste to or from this T Permittees shall comply with Conditions festing and transportation.	SD unit, except s II.P. and II.Q. o	for shipments which of this Permit regard	h occur whol ding dangero	lly within the us waste		
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Modifica	tion Class: 123		Class 1	Class ¹ 1	Class 2	Class 3		
Please ch	eck one of the	Classes:	X					
Relevant	WAC 173-303	3-830, Appendix I Modification:	A.1.					
A. Gene	ral Permit Pro	odification from WAC 173-303-830 visions nd Informational changes	Appendix I ci	tation				
Submitted	d by Co-Operate	or: Reviewed by RL Program Office:	Reviewed by	Ecology:	Reviewed by	Ecology:		
Arie K. D	keeky 9-11	-03 Rt Christenam 9/16/03	145/2	0424 M	Devi	c 2/25/04		
A.K. Ike	enberry D	ate R.F. Christensen Date	F. Jamison	Date Æ. R	. Skinnarlan	d Date		

¹ Class 1 modifications requiring prior Agency approval.

² This is only an advanced notification of an intended Class ¹1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to ¹1. if appropriate.

Hanford Facility RCRA Permit	Permit Part & Chapter:
Unit: 305-B Storage Facility	Part III, Chapter 2 and Attachment 18
	Total III diapter I dita recommend
Description of Modification:	
Chapter 3.0: Replace Chapter 3.0 with the attached Chap	oter 3.0.
Replaced 'RMW' with 'mixed waste'.	
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Modification Class: 123	Class 1 Class ¹ 1 Class 2 Class 3
Please check one of the Classes:	X
Relevant WAC 173-303-830, Appendix I Modification:	A.1.
Enter wording of the modification from WAC 173-303-8	30, Appendix I citation
A. General Permit Provisions	
1. Administrative and Informational changes	
Submitted by Co-Operator: Reviewed by RL Program Off	ce: Reviewed by Ecology: Reviewed by Ecology:
Thick- Menty 9-11-03 Rt Christenen 9/1	408 1-1 104 AV Worn 2/25/0
A.K. Ikenberry Date R.F. Christensen Da	ité F. Jamison Date E. R. Skinnarland Date

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Hanford Facility RCRA Permit Modification Notification Form

Unit:

305-B Storage Facility

Permit Part & Chapter:

Part III, Chapter 2 and Attachment 18

Description of Modification:

Chapter 3.0, Section 3.1: Replace Chapter 3.0 with the attached Chapter 3.0.

3.1 CHEMICAL, BIOLOGICAL, AND PHYSICAL ANALYSIS

The dangerous waste and mixed waste stored at 305-B Storage Facility can be categorized as originating from five basic sources:

- Listed Waste from specific and nonspecific sources
- Discarded commercial chemical products
- •Waste from research activities using radioactive isotopes
- Mixed Waste from Research Activities
- Waste from chemicals synthesized or created in research laboratories
- Discarded commercial products exhibiting dangerous waste characteristics and/or criteria.

Mixed Waste from Research Activities Using Radioactive Isotopes. Dangerous or mixed wastes from can be generated by research and analytical activities using radioactive isotopes are RMW. These wastes are generated in laboratories performing chemical and physical research, and consist primarily of radiologically contaminated chemicals. These wastes are designated on the basis of the generator's knowledge or on the basis of sampling and analysis. The generator's knowledge is used if the generator has kept accurate records of the identities and concentrations of constituents present in the waste. For example, many generating units keep log sheets for accumulation containers in satellite areas to keep a record of waste constituents. If information available from the generator is inadequate for waste designation, the wastes are sampled and the results of the analysis are used for designation. These wastes include those designated as state only dangerous waste under WAC 173-303-100 and also those designated as characteristic dangerous waste under WAC 173-303-090. Attachment 18, Chapter 1.0, Part A, Form 3, includes all categories of toxic, and persistent, waste (i.e., both DW and EHW). The wide variety of research activities conducted at Hanford presents the potential that these wastes could be generated and requires subsequent management at 305-B Storage Facility. Similarly, Attachment 18, Chapter 1.0, Part A, Form 3, includes the characteristic dangerous waste categories D001 through D043 (i.e., ignitable, corrosive, reactive, and TCLP toxic due to metals or organics content).

Modification Class: 123	Class 1	Class 11	Class 2	Class 3
Please check one of the Classes:	X		9 2 S	
Relevant WAC 173-303-830, Appendix I Modification:	A.1.			
Enter wording of the modification from WAC 173-303-830 B. General Permit Provisions 1. Administrative and Informational changes	, Appendix I ci	tation		
Submitted by Co-Operator: Reviewed by RL Program Office: This K. Dhy hy 10-303 RCCuraterian 19/24/03		Ecology:	Reviewed b	y Ecology: Mg 2/25/04

Date

R.F. Christensen

A.K. Ikenberry

Date

F. Jamison

Date

R. Skinnerland

Date

¹ Class 1 modifications requiring prior Agency approval.

² This is only an advanced notification of an intended Class ¹1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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Hanford Facility RCRA Permit Modification Notification Form

Unit:

305-B Storage Facility

Permit Part & Chapter:
Part III, Chapter 2 and Attachment 18

Description of Modification:

Chapter 3.0, Table 3-1: Replace Chapter 3.0 with the attached Chapter 3.0.

Table 3-1. Summary of Test Parameters, Rationales, and Methods

Parameter ^a	Method ^b	Rationale for Selection
	Physical	Screening
Visual inspection	Field method - observe phases, presence of solids in waste	Confirm that waste matches that described on waste acceptance documentation; identify waste prohibited by LDR requirements related to downstream TSD unit acceptance criteria
	Chemical	Screening
Water miscibility/separable organics ²	Water mix screen ASTM Method D5232-92	Confirm that waste matches that described on waste acceptance documentation; identify separable organics; identify waste prohibited by LDR requirements related to downstream TSD unit acceptance criteria
Oxidizer	Oxidizer Screen	Confirm that waste matches that described on waste acceptance documentation; ensure compliance with WAC 173-303-395(1)(b)
pH	pH screen SW-846 Method 9041	Confirm that waste matches that described on waste acceptance documentation; ensure compliance with WAC 173-303-395(1)(b)
Cyanides	Cyanide screen	Confirm that waste matches that described on waste acceptance documentation; ensure compliance with WAC 173-303-395(1)(b)
Sulfides	Sulfide screen	Confirm that waste matches that described on waste acceptance documentation; ensure compliance with WAC 173-303-395(1)(b)
Flashpoint	Flashpoint measurement instrument	Confirm that waste matches that described on waste acceptance documentation
Halogenated/Volatile Organic Compounds	Photoionizer or Flame Ionizer, or Clor-D-Tect © Kits	Confirm that waste matches that described on waste acceptance documentation
	Pre-Shipm	ent Review
Mercury (total)	Generator knowledge or SW-846 Method 7470/7471	Identify waste prohibited by LDR requirements related to downstream TSI unit acceptance criteria.
Toxicity characteristic organic compounds	Generator knowledge or SW-846 Methods 1311 and 8260 (volatile organic compounds) and 8270 (semivolatile organic compounds)	Identify waste not identified on the Part A, Form 3
Polycyclic aromatic hydrocarbons	Generator knowledge or SW-846 Method 8270 or 8100	Identify waste not identified on the Part A, Form 3 (for waste with >1% solids and for which WP03 could apply)

^a Addition parameters can be used on current waste acceptance criteria of the downstream TSD unit. Operation limits transfer/shipments are based on current waste acceptance criteria.

These test will not be performed on materials known to be organic peroxides, ether, and/or water reactive compounds.

Modification Class: 123	Class 1	Class 11	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

C. General Permit Provisions

1. Administrative and Informational changes

Submitted by Co-Operator: Air K. Lhus by 9-1-03		Reviewed by RL Program	n Office:	Reviewed by	Ecology,	Reviewed by Eco	ology:
This K. Sheety	9-1-03	TK Chusteven	9/11/03	1/1/2	- Phy	AMP Doms	2/25/00
A.K. Ikenberry	Date	R.F. Christensen	Date	F. Jamison	Date	É. R. Skinnarland	Date
						V	

b Procedures based on EPA SW-846, unless otherwise noted. When regulations require a specific method, the method shall be followed.

¹ Class 1 modifications requiring prior Agency approval.

² This is only an advanced notification of an intended Class ¹1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to ¹1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form

Unit:

305-B Storage Facility

Permit Part & Chapter:

Part III, Chapter 2 and Attachment 18

Description of Modification:

Chapter 8.0, Table 8-1: Replace Chapter 8.0 with the attached Chapter 8.0

		T ı	raining Categor	y*	
Attachment 33, General Information Portion, Chapter 8.0 Training (DOE/RL-91-28) Category	General Hanford Facility Training	Contingency Plan Training	Emergency Coordinator Training	Operations '	Training
305-B Storage Facility	Orientation Program	Building Emergency Plan	Building Emergency Director Training	Advanced Waste Management Training	Container Management
Staff Position					
Technical Group LeadUnit Operations Supervisor	X	X	X	X	X
Hazardous Waste Operations StaffWaste Management Engineers	X	X	\mathbf{X}^{1}	X	X
Waste Management Technicians and Scientist/Engineering Associates	*	X	*	X	X
Waste Management Clerks	X			*	
Required for any staff that has been Refer to the 305-B Storage Facility	. 7		_ ·	· 14.	ntegory
Iodification Class: 123 lease check one of the Classes:	Taming I will to	Cla	ass 1 Class		Class 3

Enter wording of the modification from WAC 173-303-830, Appendix I citation

A. General Permit Provisions

1. Administrative and Informational changes

Submitted by Co-Operator: Reviewed by RL Program Office: Reviewed by Ecology: Reviewed by Ecology: A.K. Ikenberi R.F. Christensen Date F. Jamison Date

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Hanford Facility RCRA Permit Modification Notification Forms

List of Attachments

Quarter Ending September 30, 2003

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Page 2 of 6: List of Attachments

Page 3 of 6: Attachment 6, Section 1.0
Page 4 of 6: Attachment 6, Section 3.0
Page 5 of 6: Attachment 6, Section 6.0
Page 6 of 6: Attachment 6, Section 7.0

Hanford Facility RCRA Permit Modification Notification Form Unit: Permit Part & Chapter: Attachment 6 **List of Attachments** Description of Modification: Remove Attachment 6 and replace with the attached Attachment 6. LIST OF ATTACHMENTS Attachment 6 Hanford Well Maintenance and Inspection Plan (as amended), BHI 01265, Revision 0, May 1999 Modification Class: 123 Class 1 Class ¹1 Class 2 Class 3 Please check one of the Classes: X Relevant WAC 173-303-830, Appendix I Modification: A.1. Enter wording of the modification from WAC 173-303-830, Appendix I citation: A. General Permit Provisions 1. Administrative and Informational changes Submitted by Co-Operator: Reviewed by DOE Program Office: Reviewed by Ecology: -23-03 10-8-03 R. T. Wilde Date M. S. McCormick Date E. R. Skinnarland Date

¹ Class 1 modifications requiring prior Agency approval.

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³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to ¹1, if appropriate.

Page 3 of 6 Hanford Facility RCRA Permit Modification Notification Form Permit Part & Chapter: Unit: List of Attachments Attachment 6 Description of Modification: Remove Attachment 6 and replace with the attached Attachment 6. Attachment 6 1.0 INTRODUCTION This document presents the well maintenance and inspection plan for use in supporting groundwater activities at the Hanford Site. Wells located across the Hanford Site are used by Site contractors for a variety of groundwater programs. As such, these wells require various types of maintenance during their lifecycles. The wells that must be maintained are defined in Section 2.0, Requirements. defines wells that must be maintained. The Well Maintenance Program is the responsibility of Bechtel Hanford, Inc. (BHI). The maintenance/inspection program is designated as routine maintenance. Class 11 Class 2 Class 3 Modification Class: 123 Class 1 X Please check one of the Classes: Relevant WAC 173-303-830, Appendix I Modification: A.1. Enter wording of the modification from WAC 173-303-830, Appendix I citation: A. General Permit Provisions 1. Administrative and Informational changes Submitted by Co-Operator: Reviewed by DOE Program Office: Reviewed by Ecology:

Date

R. T. Wilde

M. S. McCormick

10-8-07

Date

E. R. Skinnarland

Date

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Hanford Facility RCRA Permit Modification Notification Form Unit: Permit Part & Chapter: Attachment 6 List of Attachments Description of Modification: Attachment 6

3.0 SCHEDULE

The list of wells to be considered for routine maintenance is developed based on a review of the past 4 years sampling history, the fiscal year sampling schedule, and the proposed 3-year sampling schedule. Routine maintenance priority is established by reviewing the following:

- Whether the well is subject to RCRA permit requirements, or
- Elapsed time since the last routine maintenance action or construction date (priority on longer duration).

The schedule, which (see Appendix A) is generated tracked and formulated by the Hanford Well Information System (HWIS), and consists of a schedule that is sufficiently flexible to accommodate changes that will occur with the addition of new wells, adjustments in the TSD unit closures, and wells that are no longer needed for monitoring. The schedule will also accommodate wells used by other programs.

Modification Class: 123			Class 1	Class 11	Class 2	Class 3
Please check one of the Classes:			X			
Relevant WAC 173-303-830, Appe	ndix I Modification:	Α	.1.			

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

A. General Permit Provisions

1. Administrative and Informational changes

Submitted by Co-Operator:	Reviewed by DOE Program Office:	Reviewed by Ecology:
KT Wille 9-23-03	Steeled an 10-8-03	
R. T. Wilde Date	M. S. McCormick Date	E. R. Skinnarland Date

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Hanford Facility RCRA Permit Modification Notification Form Permit Part & Chapter: Unit: List of Attachments Attachment 6 Description of Modification: Remove Attachment 6 and replace with the attached Attachment 6. Attachment 6

6.0 MANAGEMENT AND CONTROL

Well maintenance activities will be performed by subcontract using approved subcontractor procedures, quality assurance and quality control plans, health and safety plan, and other appropriate and/or required documentation. Program environmental requirements documents are used to evaluate the adequacy of subcontractor procedures and plans to guide and control the well maintenance activities. Program implementation and procedural compliance will be monitored periodically through surveillance and self-assessments. The following will control environmental compliance, quality assurance, and reporting:

BHI FE 02 Program Eenvironmental Rrequirements, documents establishes the overall environmental compliance requirements for BHI.

Program implementation and procedural compliance will be monitored periodically through surveillance and selfassessments.

Well maintenance activities will be documented and transmitted for entry into the HWISHanford Well Information System Database. Inspections are towill be recorded in the RCRA operating records, where necessary. All documentation shall be submitted to the Hanford Facility Operating Record, Unit-Specific file Document and Information Services.

Class 11 Modification Class: 123 Class 1 Class 2 Class 3 X Please check one of the Classes:

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

A. General Permit Provisions

1. Administrative and Informational changes

Reviewed by DOF Program Office: Reviewed by Ecology: Submitted by Co-Operator: 10-8-07 E. R. Skinnarland Date R. T. Wilde Date M. S. McCormick Date

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Hanford Facility RCRA Permit Modification Notification Form Unit: Permit Part & Chapter: Attachment 6 List of Attachments

Description of Modification:

Remove Attachment 6 and replace with the attached Attachment 6. Attachment 6

7.0 REFERENCES

BHI-EE-02, Environmental Requirements, Bechtel Hanford, Inc., Richland, Washington,

DOE-RL, Hanford Facility Wide RCRA Permit, as revised, Permit No. WA7890008967, expiration date September 27, 2004.

Resource Conservation and Recovery Act of 1976, 42 U.S.C. 6901, et seq.

RCW 18.104, "Well Construction," Revised Code of Washington, as amended.

RCW 70.105, "State of Washington Hazardous Waste Management Act of 1976," Revised Code of Washington, as amended.

WAC 173-160, "Minimum Standards for Construction and Maintenance of Wells," Washington Administrative Code, as amended.

Class 1 Modification Class: 123 Class 1 Class 2 Class 3 Please check one of the Classes: X

A 1

Relevant WAC 173-303-830, Appendix I Modification:

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

A. General Permit Provisions

1. Administrative and Informational changes

Submitted by Co-Operator: Reviewed by DOV Program Office: Reviewed by Ecology: 10-8-13 M. S. McCormick R. T. Wilde E. R. Skinnarland Date Date Date

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Hanford Facility RCRA Permit Modification Notification Forms

List of Attachments

Quarter Ending September 30, 2003

Replacement

Index

Attachment 6



WA7890008967, Attachment 6 Hanford Well Maintenance & Inspection Plan

Class 1 Modification Quarter Ending 9/30/2003

1	Cont	tents		
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Class 1 Modification Quarter Ending 9/30/2003

- 1 The schedule, which is tracked and formulated by the Hanford Well Information System (HWIS), is
- 2 sufficiently flexible to accommodate changes that will occur with the addition of new wells, adjustments
- 3 in the TSD unit closures, and wells that are no longer needed for monitoring. The schedule will also
- 4 accommodate wells used by other programs.

5 4.0 WELL INSPECTIONS

- 6 Well inspections are conducted as an integral part of field maintenance activities. Inspections include
- 7 visual examination of the well site, surface components of the well structure (e.g., barrier posts, concrete
- 8 surface pad, protective well casing, well cap), identification of equipment installed in the well, and where
- 9 possible measurements of the depths to water and/or bottom of the well. Inspections are documented on
- 10 field reports.

11 5.0 WELL MAINTENANCE

- Well maintenance for groundwater monitoring wells at a minimum will include the following tasks:
- 13 1. Removing groundwater sampling pump system and/or aquifer testing instrumentation/equipment
- 14 2. Inspecting and repairing (or replacing, as necessary) the sampling pump system and/or aquifer
- 15 testing instrumentation/equipment
- 16 3. Brushing/cleaning the well casing perforations/well screen
- 17 4. Removing debris and fill material
- 18 5. Developing the well
- 19 6. Performing borehole video camera surveillance
- 20 7. Re-installing sampling and/or aquifer testing instrumentation/equipment
- 21 8. Documenting well conditions and maintenance activities
- Performing well inspections, as defined in Section 3.0 of this well maintenance and inspection plan.

24 6.0 MANAGEMENT AND CONTROL

- Well maintenance activities will be performed by subcontract using approved subcontractor procedures,
- 26 quality assurance and quality control plans, health and safety plan, and other appropriate and/or required
- documentation. Program environmental requirements documents are used to evaluate the adequacy of
- 28 subcontractor procedures and plans to guide and control the well maintenance activities. Program
- 29 implementation and procedural compliance will be monitored periodically through surveillance and self-
- 30 assessments.
- 31 Well maintenance activities will be documented and transmitted for entry into HWIS. Inspections will be
- 32 recorded in the RCRA operating records, where necessary. All documentation shall be submitted to the
- 33 Hanford Facility Operating Record, Unit-Specific file.

34 7.0 REFERENCES

- 35 DOE-RL, Hanford Facility Wide RCRA Permit, as revised, Permit No. WA7890008967, expiration date
- 36 September 27, 2004.
- 37 Resource Conservation and Recovery Act of 1976, 42 U.S.C. 6901, et seq.

HANFORD WELL MAINTENANCE AND INSPECTION PLAN

2 1.0 INTRODUCTION

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- 3 This document presents the well maintenance and inspection plan for use in supporting groundwater
- 4 activities at the Hanford Site. Wells located across the Hanford Site are used by Site contractors for a
- 5 variety of groundwater programs. As such, these wells require various types of maintenance during their
- 6 lifecycles. The wells that must be maintained are defined in Section 2.0, Requirements defines wells that
- 7 must be maintained.

2.0 REQUIREMENTS

- 9 The Revised Code of Washington ([RCW] 18.104), as amended, states that the property owner is required
- 10 to maintain wells to guard against waste and contamination of the groundwater resources. In addition,
- 11 RCW 18.104 empowers the Washington State Department of Ecology (Ecology) to adopt rules for the
- 12 maintenance of wells and their casings. These rules and regulations are contained in Washington
- 13 Administrative Code (WAC) 173-160, "Minimum Standards for Construction and Maintenance of Wells,"
- 14 issued by Ecology.
- 15 The provisions of the dangerous waste section of the Resource Conservation and Recovery Act of 1976
- 16 Permit for the Treatment, Storage, and Disposal of Dangerous Waste at the Hanford Site Permit are
- 17 controlled by the "State of Washington Hazardous Waste Management Act of 1976" (RCW 70.105).
- Part II.F.2.a of Ecology 1994 states ...the Permittees shall inspect the integrity of active resource
- 19 protection wells as defined by WAC 173-160-030 subject to this Permit at least once every five (5) years.
- Wells subject to the RCRA Permit requirements are defined as wells actively monitoring treatment.
- storage, and disposal (TSD) unit closures (in Part V of the Permit); TSD operating units (in Part III of the
- 22 Permit); and TSD units undergoing post-closure/modified closure (Part VI of the Permit).
- 23 Additionally, the "Second Responsiveness Summary" section (Ecology 1994), which discusses
- 24 interpretation of the RCRA Permit (found in Part II.F.2.a, page 99), states that Ecology requires
- 25 maintenance inspections because of the likelihood that monitoring wells can act as preferential pathways
- 26 for the migration of contaminants. Although the inspections are only required for the wells subject to the
- 27 Permit, Ecology further states that ...the Department will pursue enforcement action outside of this
- 28 Permit to assess and remediate and/or abandon, where applicable, those wells not being addressed by
- 29 this Permit.
- 30 Groundwater monitoring wells included in the maintenance/inspection plan are determined by the RCRA
- 31 permit and various programs such as the Hanford Site Groundwater/Vadose Zone Integration Project.
- 32 Maintenance of wells supporting other programs or projects across the Hanford Site may be included in
- the maintenance schedule at the request of the program manager.

34 3.0 SCHEDULE

- 35 The list of wells to be considered for routine maintenance is developed based on a review of the past
- 36 4 years sampling history, the fiscal year sampling schedule, and the proposed 3-year sampling schedule.
- Routine maintenance priority is established by reviewing the following:
- Whether the well is subject to RCRA permit requirements, or
- Elapsed time since the last routine maintenance action or construction date (priority on longer
- 40 duration).

- 1 RCW 18.104, "Well Construction," Revised Code of Washington, as amended.
- 2 RCW 70.105, State of Washington Hazardous Waste Management Act of 1976, Revised Code of
- 3 Washington, as amended.
- 4 WAC 173-160, Minimum Standards for Construction and Maintenance of Wells, Washington
- 5 Administrative Code, as amended.

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Hanford Facility RCRA Permit Modification Notification Forms

General Permit Conditions

Page 1 of 3

Index

Page 2 of 3: Permit Condition II.U.3
Page 3 of 3: Permit Condition II.V

Hanford Facility RCRA Permit Modification Notification Form Unit: Permit Part & Chapter: Hanford Facility RCRA Permit Part II, General Conditions

Description of Modification:

Permit Condition II.U.3:

This modification updates the conditions to reflect the current status of mapping efforts.

The Permittees shall maintain piping maps for existing, newly identified, and/or new dangerous waste underground pipelines (including active, inactive, and abandoned pipelines, which contain or contained dangerous waste subject to the provisions of Chapter 173-303 WAC) at the Hanford Facility within the 200 East, 200 West, 300, 400, 100N, and 100K Areas. The maps shall identify the origin, destination, direction of flow, size, depth and type (i.e., reinforced concrete, stainless steel, cast iron, etc.), of each pipe, and the location of their diversion boxes, valve pits, seal pots, catch tanks, receiver tanks, and pumps, and utilize Washington State Plane Coordinates, NAD 83(91), meters. If the type of pipe material is not documented on existing drawings, the most probable material type shall be provided. The maps shall also identify whether the pipe is active, inactive, or abandoned. The age of all pipes requiring identification pursuant to this Condition shall be documented in an Attachment to the submittal. If the age cannot be documented, an estimate of the age of the pipe shall be provided based upon best engineering judgment. These maps need not include the pipes within a fenced tank farm or within a building/structure. These maps shall be compiled using documented QA/QC control methods and procedures outlined in DOE/RL-96-50, Hanford Facility RCRA Permit Mapping and Marking of Dangerous Waste Underground Pipelines Report, September 1996. These maps and any Attachments shall be maintained in the Facility Operating Record and be updated annually as required by Condition II.U.4.

Modification Class: 123		Class 1	Class 11	Class 2	Class 3
Please check one of the Classes:		X		F	7
Relevant WAC 173-303-830, Appendix	I Modification:	A.1.			
Enter wording of the modification from A. General Permit Provisions 1. Administrative and Informationa		pendix I citation			
Submitted by Co-Operator: Submitted by Co-Operator: 155003 R. H. Gurske Date	Reviewed by RL Pro	gram Office 10/9/03 Date	MPL	iewed by Ecol	ogy: 2/25/a4 Date

¹ Class 1 modifications requiring prior Agency approval.

² This is only an advanced notification of an intended Class ¹1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to ¹1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form Permit Part & Chapter: Unit: Part II, General Conditions **Hanford Facility RCRA Permit** Description of Modification:

Permit Condition II.V

This modification updates the conditions to reflect the current status of mapping efforts.

MARKING OF UNDERGROUND PIPING II.V

The Permittees shall maintain marking of underground pipelines located outside the 200 East, 200 West, 300, 400, 100N, and 100K Areas identified in Condition II-U.3. These pipelines shall be marked at the point they pass beneath an area fence-enclosing the 200 East, 200 West, 300, 400, 100N, or 100K Areas, at their origin and destination, at any point they cross an improved road, and every 100 meters along the pipeline corridor where practicable. The markers shall be labeled with a sign that reads "Buried Dangerous Waste Pipe" and shall be visible from a distance of fifteen (15) meters.

Modification Class: 123	Class 1	Class 11	Class 2	Class 3		
Please check one of the Classes:	X	15.80				
Relevant WAC 173-303-830, Appendix I Modification:	A.1.					
Enter wording of the modification from WAC 173-303-830, Ap	opendix I citatio	<u>n</u>				
A. General Permit Provisions						
 Administrative and Informational changes. 						
Submitted by Co-Operator: Reviewed by RL Pro	ogram Office	Re	viewed by Eco	ewed by Ecology:		
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R. H. Gurske Date J. B. Hebdon	Date	F. R. Sk	innarland	Date		

¹ Class 1 modifications requiring prior Agency approval.

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³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to 11, if appropriate.

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Reviewed by Ecology:

Date

L. E. Ruud

Hanford Facility RCRA Permit Modification Notification Form Permit Part & Chapter: Part II. General Conditions Hanford Facility RCRA Permit Description of Modification: Permit Condition II.U.2 II.U.2 Permittees shall maintain current all maps required by Condition II.U.1. These maps will be updated to incorporate new or revised information available by March 30th of each year. By September 30th of each year, the Permittees shall submit to Ecology a list of maps that have been updated. The updated maps ((including any Attachments) and the annual list submitted to Ecology shall be maintained in the Facility Operating Record. . Melph Modification Class: 123 Class 1 Class 2 Class 3 Class I Please check one of the Classes: X Relevant WAC 173-303-830, Appendix I Modification: A 1.

Deleted: By September 29, 1997, the Permittees shall make an initial submittal to Ecology of maps showing the location of dangerous waste underground pipelines (including active, mactive, and abandoned pipelines which contain or contained dangerous waste subject to the provisions of Chapter 173-303 WAC), on the Facility, which are located outside of the fences enclosing the 200 East, 200 West, 300, 400, 100N, and 100K Areas. These maps shall identify the origin, destination, size, depth, and type (i.e., reinforced concrete, stainless steel, cast iron, etc.), of each pipe and the location of their diversion boxes, valve pits, seal pots, catch tanks, receiver tanks, and pumps, utilizing Washington State Plane Coordinates, NAD 83(91), meters. If the type of pipe material is not documented on existing drawings, the most probable material type shall be provided. These maps shall be accompanied by a description of the QA/QC control measures used to compile the maps.

Deleted: The age of all pipes required to be identified pursuant to this Condition, shall be documented in an Attachment to the submittal. If the age cannot be documented, an estimate of the age of the pipe shall be provided, based upon best engineering judgment.

Deleted: These maps, and any Attachments, shall be maintained in the Facility Operating Record and updated annually, after the initial submittal, with new or revised information. Each map submittal required by this Condition shall incorporate information available six (6) months before the scheduled submittal

1. Administrative and Informational changes

A. General Permit Provisions

R. H. Gurske

Submitted by Co-Operator:

Reviewed by RL Program Office

Date

J. B. Hebdon

Enter wording of the modification from WAC 173-303-830, Appendix I citation

Date

¹ Class 1 modifications requiring prior Agency approval.

² This is only an advanced notification of an intended Class ¹1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to 11, if appropriate.

Page 10 of 13

Hanford Facility RCRA Permit Modification Notification Form					
Unit: Hanford Facility RCRA	A Permit		Permit Part & C Part II, General C		
Description of Modification: Permit Condition II.U.3					
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Modification Class: 123		Class 1	Class 1	Class 2	Class 3
Please check one of the Classes:		Х			
Relevant WAC-173-303-830, Appendix	I Modification:	A.1.			
Enter wording of the modification from A. General Permit Provisions 1. Administrative and Informationa	l changes.				
Submitted by Co-Operator:	Reviewed by RL Program Office		Reviewed by Ecology:		
R H Gurcke Date	I D Hobdon	Dieto	I E D.		

Deletted: By September 28, 1998, the Permittees shall make an initial submittal to Ecology of piping schematics for dangerous waste underground pipelines (including active, inactive, and abandoned pipelines, which contain or contained dangerous waste subject to the provisions of Chapter 173-303 WAC) within the 200 East, 200 West, 300, 400, 100N, and 100K Areas. The piping schematics shall identify the origin, destination, and direction of flow for each pipe, as well as whether the pipe is active, inactive, or abandoned. These schematics need not include the pipes within a fenced tank farm, or within a building/structure. These schematics shall be accompanied by a description of the QA/QC control measures used to compile the maps. These schematics and any Attachments, shall be maintained in the Facility Operating Record and updated annually, after the initial submittal, with new or revised information. Each map submittal required by this Condition shall incorporate information available six (6) months before the scheduled submittal

¹ Class 1 modifications requiring prior Agency approval.

² This is only an advanced notification of an intended Class ¹1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

³ If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to ¹I, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form					
Unit:	Permit Part & Chapter:				
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Modification Class: 123	Class 1	Class 1	Class 2	Class 3	
Please check one of the Classes:	X			* *	
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Enter wording of the modification from WAC 173-303-830, Ap A. General Permit Provisions 1. Administrative and Informational changes.	ppendix I citatio	-			
Submitted by Co-Operator: Reviewed by RL Pro	ogram Office	Rev	riewed by Ecol	ogy:	

Deleted: By September 28, 1998, the Permittees shall make an initial submittal, to Ecology, of maps showing the location of dangerous waste underground pipelines (including active, inactive, and abandoned pipelines, which contain or contained dangerous waste, subject to the provisions of Chapter 173-303 WAC) within the 200 East, 200 West, 300, 400, 100N, and 100K Areas. These maps will incorporate information available six (6) months prior to the scheduled submittal date. Thereafter, the maps will be updated on an annual basis to incorporate additional information, as such information becomes available in accordance with the FFACO milestone schedule. A schedule for the provision of map input shall be included in the report specified in Condition II.U.1.¶ The maps shall identify the origin, destination, size, depth and type (i.e., reinforced concrete, stainless steel, cast iron, etc.), of each pipe, and the location of their diversion boxes, valve pits, seal pots, catch tanks, receiver tanks, and pots, eaten tanks, receiver tanks, and pumps, and utilize Washington State Plane Coordinates, NAD 83(91), meters. If the type of pipe material is not documented on existing drawings, the most probable material type shall be provided. These maps need not include the pipes within a fenced tank farm or within a building/structure. These maps shall be accompanied by a description of the QA/QC control used to compile the maps. The age of all pipes required to be identified pursuant to this Condition shall be documented in an Attachment to the

submittal. If the age cannot be documented, an estimate of the age of the pipe shall be provided based upon best

These maps, and any Attachments, shall be maintained in the Facility Wide Operating Record and updated annually, after the initial submittal, with new or

engineering judgment.¶

revised information.

Date

R. H. Gurske

Date

L. E. Ruud

Date

J. B. Hebdon

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